ABSTRACT OF THE DISCLOSURE

MANUFACTURING PROCESS FOR A REFRACTORY MATERIAL, PROTECTIVE COATING THAT CAN BE OBTAINED WITH THIS PROCESS AND USES OF THIS PROCESS AND THIS COATING

relates to process for invention а 5 This manufacturing a refractory material, a protective coating, and uses of this process and this coating.

The process comprises the following steps:

a) deposit on the surface of a substrate or in a mould a first dispersion containing at least one metallic compound chosen from among borides, carbides borocarbides containing at least one transition metal, in powder form, and a resin with a coke mass content equal to at least 30% after carbonization; b) dry the resulting deposit; c) cross-link the resin; d) carbonize the resin under an inert atmosphere; e) cover the deposit with a second dispersion containing Si in powder form and a binder; f) heat the deposit to a temperature greater than or equal to the melting temperature of Si, under an inert atmosphere.

Applications: manufacture of propulsion parts and elements for aerospace and wing fuselage and applications; manufacture heat aeronautical exchangers for thermal power stations; metallurgy; chemical industry; etc.

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